

Use Attainability Analysis

for

WBID 484 Tributary to Wilson Creek

Submitted by BWR

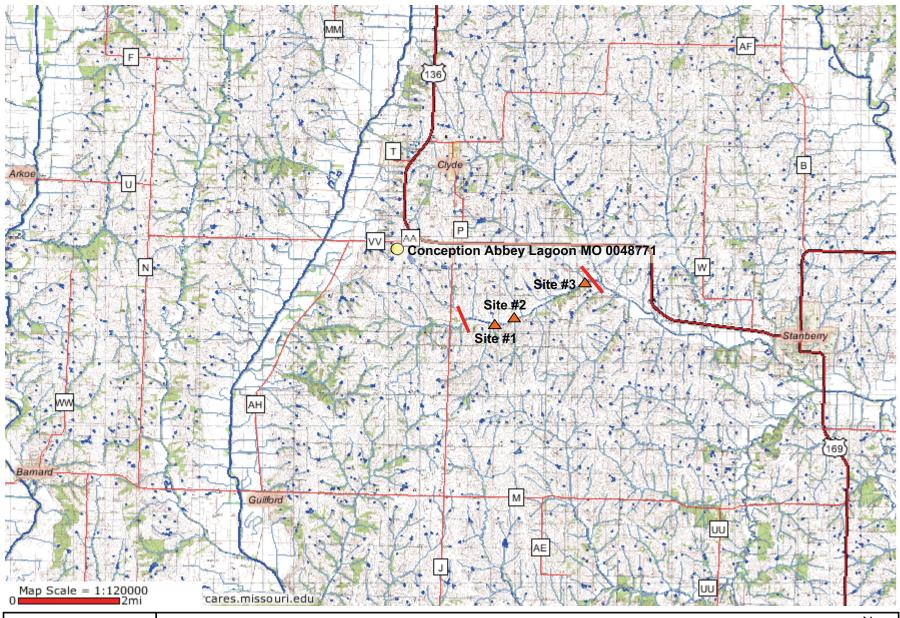
June 1, 2007

Submitted to:
Missouri Department of Natural Resources
Division of Environmental Quality
Water Protection Program

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet A - Water Body Identification

I. Water Body Information (For water body being st	rrveyed)
Water Body Name (from USGS 7.5' quad):	ributary to Wilson Creek
Missouri Water Body Identification (WBID) Nu	mber: 484
8-digit HUC: 102 90101	County: Noda Way
Upstream Legal Description (from Table H):	NKNDWN 300
Downstream Legal Description(from Table H):	MKNOW
Number of sites evaluated 3	
List all sites numbers, listed consequently upstre	eam to downstream:
1,2,3	
Site Locations Map(s): Attach a map of entire seg	ment with aggoggment sites clearly labeled. Mark
any other items that may be of interest.	ment with assessment sites clearly labeled. Mark
ary outer rems that may be of merest.	
II. Subegmentation (fill this section out only in ca	
LOCATION COORDINATES (UNIVERSAL TRANSVERSE MERCATOR)	
Upstream Coordinates: UTM X Y	Downstream Coordinates: UTM X Y
HORIZONTAL COLLECTION METHOD (Indicate the method used to def	
Global Positioning System (GPS)	Interpolation
Static Mode	Topographic Map or DRG
Dynamic Mode (Kinematic)	Aerial Photograph or DOQQ
Precise Positioning Service	Satellite Imagery
Signal Averaging	Interpolation Other
Real Time Differential Processing	
HORIZONIAL ACCURACY ESTIMATE	
GPS Data Quality	Interpolation Data Quality
FOM ±Meters	Source Map Scale: 1:24,000 1:100,000 Other
	eters Motoro
PDOP	±Feet or ±Meters
Discharger Facility Information (list all permit Discharger Facility Name(s):	
Discharger Facility Name(s). CONCLAN	ion Abbey Lagoon
Discharger Permit Number(s):	N8771
IV. UAA Surveyor (please print legibly)	
Name of Surveyor RVANLUY	Telephone Number: (RIV) 3103 - 21096
Organization/Employer: BWL	
Position: EVMVOVMENTED Still	mist
	is, checked all applicable boxes and that everything is
complete.	
Simul Kulan M. A.	Date: 85-27-67
Signed: February 5, 2007	Page 22
i coracij o, zopi	1 456 77





Tributary to Wilson Creek WBID #484



WE	BID# 48	4	Field Data	Shaa	te for l	Paoranti	omal lla	• C4	a .		
Site	#/		Da	ita S	heet E	3 - Site (Charact	erizati	m Surveys on		
	Date & Time:	5/17	107	7111	age be e				g., road crossing)		
	ł	Collectors	1: RYAN CUNT	Sad	ie	Brid	ge Cirt	issing	- OVIOV	Rd. 150 m	
	Current Weather Conditions: SWW					Facility	Name:	nearts	h Ollen	Lagran.	
	Weather Condit	ions for Pa	st 10 days: ROW	1		Permit N	Number:	Ann	4877	V	
	Drought Condit	ions?: No	drought [2]; Phase I	 ∃: Phas	e II 🗀 I						
Si	w Locations	5:									
	LOCATOR COO	CHANGE 3	AND THE PERSONS		CATCR	Hayerida		- j. j. j.			
	Site GPS Coo	rdinates: U	MX: 094.	U 52	<u>50 ° </u>	W	Y: 40.	2190	13°N		
	TOPIZONI AE CI	Globa	METHOD (indicate the r I Positioning System (nethod u	sed to det	aritime the loc	ational data.	克·蒙 诺-20	2000年代在		
	Static Mode					ic Map or Di	Interpola	ation			
	Dynamic Mode (Kinematic)					ograph or D		·· ·			
	Precise Positioning Service				Satellite Imagery						
	Signal Averaging	4-15					Interpolatio	n Other			
	Real Time Differer			- Mr. To vie 71	***********			• .			
			GPS Data Quality								
	FOM			<u>·</u>	_ <u>·</u>	<u> </u>	*. * 		Interpolation D	ata Quality	
	 	±	Meters				Source Map Scale: 1:24,000 1:100,000 Other				
	EPE	±	Feet or ±_		Meters						
-	PDOP		_,					±		:Meters	
۲n	otos:									-	
	τ	Jpstream Pi	notos		D	ownstream	Photos			Other Photos	
	Photo ID#		ioto Purpose	Photo	ID#	Pi	Photo Purpose Photo ID#		Photo Purpose		
	34	Tran	sect I-J	33		Transe	of B	9 A-	100-28:29		
Us	es Observed	d*: (Uses	actually observe		ime of	SHIPVEY)		71	31,32	nomen coun, I boun	
	☐ Swimming		☐ Skin diving			UBA diving	3	☐ Tubi	ng	300 nous /	
	☐ Wind surfing	g	☐ Kayaking		□Во	ating		□ Wad	ing.	☐ Rafting	
	☐ Hunting		☐ Trapping		☐ Fis	hine	ing Diameter				
	Describe: (Inclu Use Interview w	ide number vhen condu	of individuals recreating interviews.)	ting, ph	oto-docu	unentation o	of evidence	of recreati	ional uses, etc. I	☐ Other: Jse Data Sheet D- Recreationa	
Su	rrounding C	ondition	18*: (Mark all tha	at pron	note or	impede re	ecreation	al uses. A	Attach photos	of evidence or	
unt	isaar roms or	meresi.)	T				·			*	
	☐ City/county	-	☐ Playgrounds	<u> </u>	ADC con	servation la	nds	☐ Urba	n areas	☐ Campgrounds	
	☐ Boating acc	esses	☐ State parks	<u> </u>	Vational	forests		□ Natu	s trails	☐ Stairs/walkway	
	☐ No trespass	sign	☐ Fence		Steep slo	pes		None	of the above	☐ Other:	

February 5, 2007

Indications of Human Use*: (attach photos)

☐ Rope swings

☐ Foot paths/prints

☐ Fire pit/ring

☐ Dock/platform

☐ NPDES Discharge

Comments:

Roads

Comments:

☐ Camping Sites

RV / ATV Tracks

Other:

☐ Other:

☐ Livestock Watering

☐ Fishing Tackle

					10 C	hanrel Fe J: 100	eature
					RUA	J: 100	
* Page Two - Data	Shoot D for WI	oro a	4011 0	4- 1	RIE	FLE: 0	
Stream Morpholog	na. I oneer d tol Mi	SID #	184:51	e 1	000		
	— "		_			0L: 0	
Upstream View's	S Physical Dimens	ions: Is t	here any water	present a	t this view	? □ Yes □ No	
		lf.	so, is there an	obvious c	urrent?	☐ Yes ☐ No	
Select one of the	following channel	features:	<u>: </u>			_ 143	
Channel Feature RIFFLE	Distance from acc	ess (m)	Width (m)	Leng	th (m)	Median Depth (m)	Max. Depth (m
RUN			····				,
POOL							
1002							
Downstream Vie]	lf so, is there a			ew? □ Yes □ No	
Select one of the the Channel Feature	Distance from acce	leatures:					
RIFFLE	Sistance from acci	C35 (111)	Width (m)	Leng	th (m)	Median Depth (m)	Max. Depth (m)
RUN							
POOL							
Substrate*: (These	values should add us	n to 100%	`				
O % Cobble	e / % Gra			12	% Silt	75 % Mud/Clay	% Bedr
Aquatic Vegetation MUCH WORK SUSPENDED	n*: (Note amount of delovid www. Solids in	hadri d	tovan tr	WY O	VEST TAX	S loand vain	\$
Water Characteris							
Odor:	☐ Sewage [☐ Musky	☐ Chemi	ical	None	☐ Other:	
Color:	☐ Clear [☐ Green			☐ Milky	☐ Other:	
Bottom Deposit:	□ Sludge [□ Solids	☐ Fine s	ediments	□ None	☐ Other:	
Surface Deposit:	□ Oil [□ Scum	☐ Foam		None	☐ Other:	
*This information is not comprehensive understa decision on the recreation. Please verify that you surveyor's Signature:	t to be used solely founding of water cond on use analysis but m u have completed	or removal of itions. Contains point to	of a recreational nsequently, this conditions that	use designinformation	n is not inte er analysis	ended to directly influer or that effect another u	ice a
Organization: 5	OIT.	<u> </u>		Position	n: <u>Zw</u>	Separtial	

	Distance from	Depth	Sik #Rank		
/ ^	Stream edge		Katik	Assigned Rank	Sorted depth
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3		3		2 Rún	
4	measurements	3		3	
56	.5 n	3		4 Dissolved o	Xygen
6	apart	.3			00
· 7	7	. 3		6 9.8	ppn
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10				9	
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2	0_1	. 3		12 Channel	Kature:
3		13		13 Run	
4	measurements	.3		14	
ব	10 m	.3		15 Dissolved	Oxygen:
4	guart	.2		17 9.1	
		. 2		17 9.1	ppm
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9		.2		20	
10		. 2		21	
. F				22	
ed C1	Wetted width	.2			
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7	measurements	2			Oxygen
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8		. 2		. 93	Popul
9				n	-
10		•			
٠٠					

If there is an odd number of entries find middle rank [(n+1)/2]. The corresponding sorted value depth to the middle rank is the median depth.

I, the undersigned, hereby affirm to the best of my datasheet is true and accurate.	knowledge, that all information reported on this UAA
Signed: Kyan M- Junt	Date: 05-27-07
Organization: SETY	Position: Environments
February 5, 2007	Suntit Page 25

		484	Sik #_	umation of median depth	,
	Distance from Stream edge	Depth	Rank	Assigned Rank	Sorted depth
ansect D ₁	welfed width	.2		1 04 /-	
2	3m	3		1 Channeltes 2 Qu	nure:
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5	measurements n	13		4 Dissolved C	Xygen
6	apart	(3		6 9.02	
7		,3		7 91	ppn
89		.2		8	- /6
lo		1		9	
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ved E 1	wetled width			12 Channel	L
<i>2 3</i>		3		13 R	M
4	me asurements	.3		14	
5	- 'Y	• 3		15 Dissolved	Oxygen:
67	apart-	·3 ·3		17 9.0	•
9		.2		18 91	ppm
9			- 	19	
10				20	
n: (= /	10/0//01/11/11			22	
ned F1	welfed width	. <.		23 Channel 1 24 Run	catere:
3		.2		24 Run 25	
9	measurements	. 3		26 Dissolved	Okygen
56	14 pm	.3			rigger
7	apart	13		-1.0	par-
8 9		.3		n	
7 10		2			
14					

If there is an odd number of entries find middle rank [(n+1)/2]. The corresponding sorted value depth $t_{\rm f}$ the middle rank is the median depth.

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

I, the undersigned, hereby affirm to the best of my kn datasheet is true and accurate.	owledge, that all information reported on this UAA
Signed: Ryan M. Lind	Date:05-27-07

Organization:_ Position: Environme To

February 5, 2007

Page 25

Data Sheet C - Cross-Sectional Depth Measurements (for estimation of median depth)

	Distance from	<u> 484</u> Depth	Sik #			<u> </u>
	Stream edge		Kalik	Assigne	d Rank	Sorted depth
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8				8		/6
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" <u> </u> -		1		10		
ed H 1	Wolfedwidth	1		11		
2	wetled width	- 1	· ·	12 Cho	annel	Kature:
3		13		13	Run	
4	measurement	12		14		
5	me asurements	14		15	ISSOLVED	Oxygen:
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		- 3		18	4.0	ppm
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9		. 3		20		
10		13		21		·
- /	10/0/10/11/11	0		22		
ed II	wetted width	.3		23 Ch	nnel F	entre:
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4	mensuremente			25	,	
5	measurements	3		26 Dis	solved	Oxygen
<i></i>	apart	•4		 - 	(A:7)	00
7		.3		 • 	9.0	Par
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9		.2		 		
10		.2		 		

If there is an odd number of entries find middle rank [(n+1)/2]. The corresponding sorted value depth to the middle rank is the median depth.

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

Signed: Ryan M. Lunt	Date: <u>05-27</u> -07
Organization: SETZ February 5, 2007	Position: Environmental
1 columy 3, 2007	Scientist Page 25

	WBID #	Depth	Sik#_		
<u></u>	Stream edge	-	Rank	Assigned Rank	Sorted depth
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2	m	12-		2	oure:
<u>ر</u>		. 3			
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	apart	13			40
	1	• 3		6 9.0	ppa
5	7	. 3		8 90	7.
6	·	• 3		9	
l	/	. 2		10	
- 1/2	wall to all			11	
ved K	wethed width	. 3		12 Channel	Kahne:
7	3	.3		13 PM	
4	me asurements			14 15 Dissolve	4 2
5		' 3		16	Oxygen:
6	ayart	.3		17 9.0	nom.
9		. 2		18 9	ppm
9		.2		19	
10		· 2		20	
,				22	
nved 1	wetted width			23 Channel	Techne:
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Ś	measurements		- 	25	
5	<u> </u>			26 Dissolved	Oxygen
Ē	apart			<u> </u>	
7	,				Pan
5	,			n	
10					

If there is an odd number of entries find middle rank [(n+1)/2]. The corresponding sorted value depth to the middle rank is the median depth.

I, the undersigned, hereby affirm to the best of my led datasheet is true and accurate.	knowledge, that all information reported on this UAA
Signed: Kyan M- Junt	Date:05-27-67
Organization: SFTE	Position: Enveronmental
February 5, 2007	Seated Page 25

WBID#_	4	84
Site#	2	

Field Data Sheets for Recreational Use Stream Surveys Data Sheet B - Site Characterization (must be completed for each site)

	Date & Time:	510	7/0	1	11110	or De C	Site I on					
	Personnel (Data	Collectors	70	1	101	0.0	- 3.00 E.O.	ad W	spuon (c.g わくひし/	g., road crossing)		Rd
	Current Weather		$\sim \nu \nu$	// LU		<u> 7</u> K	+			<u> </u>	(130	2 m downstream
				SUNNA		 	Facility	Name: Con	reentros	Abant	ti acas	and the same of th
	Weather Condit	ions for Pas	t 10 days:	J. Ki	41	Just)	Permit N	lumber:	Mo	00 48 77	18	
C:	Drought Conditi	ons?: No d	rought 🗂	: Phase I]; Phase	l H□; P	Phase III	: Phase IV	□; Unkne	own 🛘		
21	te Locations										-	
	LGCATON COOR					CATOR			25063	60.75.74.15		
	Site GPS Coor	dinates: U	IM X:	094	<u> </u>	R 18	. W	Y: 40	.219	VI ON		
	HUMAZONI AE, CI	Clobal	Besitiania	dicate the s	nethod us	ed to det	in in the loc	ational data.	E Mr. Jake	6.8%。在《正 篇 》《在	4-2	For Alleganian
	Static Mode	Giodal	-Celnoulu	g System (GPS)		<u>-</u>			Interpola	ation	41 - 42 - 43 - 44 - 44 - 44 - 44 - 44 - 44
:	Dynamic Mode (Kinematic)						Topographi Aerial Phot					
	Precise Positioning	Service		-	· · · · · · ·			Satellite Im		000		
	Signal Averaging					-		Interpolatio				
	Real Time Differen			·							\	<u> </u>
	Conscient and the appearance of the second s											
			GPS Data	Quality						Interpolation D		
	FOM	±	M	Meters			· · · · · · · · · · · · · · · · · · ·	·				
	EPE	±	2U Fe	et or ±		Vieters		Sourc	œ Map Sca	le: 1:24,000 1:100	0,000 O	her
ı	PDOP							±_	Feet or±	<u>-</u>	Meters	
Ph	otos:			<u></u>		·						
	Upstream Photos				Downstream Photos			Othe	π Photos			
	Photo ID# Photo Purpose		Photo ID# Photo Purpo		oto Purpos		Photo ID#	0010				
	40	J-K			39 A-12				35,20,		Photo Purpose	
Us	es Observed		_	observe	ed at time of survey.)				37,38	UPSTY	ream, a bank, nstream, L bank	
	☐ Swimming		1							-	<u> </u>	BITECOPY C BOPY
	☐ Wind surfing		Skin diving				UBA diving	3	☐ Tubi		_ _	Water skiing
				☐ Kayaking		☐ Boa			Wading			Rafting
1	Describe: (Inclu	da number c	☐ Trap	ping	☐ Fishing ing, photo-documentation of evidence			None of the above			Other:	
Su	rrounding C	ondition		10 11 0.1								
unu	sual items of i	nterest.)			<u>-</u> -		_r-30 1\		usos. 1	reach photos	OI GA	idence of
	☐ City/county	parks	☐ Play	grounds	□м	DC cons	servation la	nds	☐ Urban areas			Campgrounds
ļ	☐ Boating accesses		☐ State	parks	□ N	☐ National forests			☐ Nature trails			Stairs/walkway
	☐ No trespass sign ☐		☐ Fend	:e	☐ St	eep slor	opes		None of the above			Other:
	Comments:										1	
lnd	ications of F	<u>luman U</u>	se*: (at	tach ph	otos)							
	Roads	☐ Rope s			paths/pr	ints	☐ Dock/pl	atform	□ Liv	estock Watering		RV / ATV Tracks
	☐ Camping Site	:s		☐ Fire p	·		□ NPDES			shing Tackle	+	
	Comments:	····						~ाल्याचा हुट	J FIS	mang rackle	1 🗆 '	Other:
L												

					10 C	name to	sature_
					RUN	J: 90	
* Page Two - Day	s Sheet R for	WRID# 2	10. U.DI	0			
Stream Morphole	ogy:	W DID #	·// [· /·		POC	DL:17	
Upstream View		ensions: Is:	there any water	Brecant of			
•	y-						
Select one of the	e following char	II anel features	so, is there an o	bvious ci	urrent?	□ Yes □ No	
Channel Feature	Distance from	access (m)	Width (m)	Leng	th (m)	Median Depth (m)	Man Dorder
RIFFLE			(111)	tieng	(111)	wiedian Depth (m)	Max. Depth (m)
RUN							
POOL							
Downstream Vi			If so, is there ar			ew? 🗆 Yes 🗆 No	
Channel Feature	Distance from	access (m)	Width (m)	Leng	th (m)	Median Depth (m)	Max. Depth (m)
RIFFLE							Police Depth (iii)
RUN POOL							
L				 			
Substrate*: (Thes			() % Sand				
		5.4.6.	() /0 Barid		% Silt	.3() % Mud/Clay	15 % Bedro
Aquatic Vegetati nohl Oldni	ih water c vs ih Cha	hannel.					
Water Character	istics*: (Mark al	ll that apply.)					
Odor:	☐ Sewage	☐ Musky	☐ Chemi	cal	None	☐ Other:	
Color:	☐ Clear	☐ Green	Gray		☐ Milky	☐ Other:	
Bottom Deposit:	☐ Sludge	□ Solids	Fine se	diments	□ None		
Surface Deposit:	□ Oil	☐ Scum	☐ Foam	- Jannena	_/	☐ Other:	
<u> </u>			LJ TOAIII	· · · · · · · · · · · · · · · · · · ·	VNone	☐ Other:	
*This information is r							
*This information is n comprehensive unders decision on the recrea	nanunig of water (conaimons. Ca	onsequently this:	ntormatia	n ic not into		
Please verify that y	ou have comple	eted all section	ons, checked al	l applica	ble boxes	and that everything	is complete.
Surveyor's Signatur	e: Rugen	M A	unt	Date	of Survey	85-27-0	<u>Z</u>
Organization: 5	FIZ			Position	n: ENU	15-27-0°	,

	Distance from	Depth	Rank	Assigned Rank	Sorted depth
sect A	Stream edge	1	- 		
2	1			1 Channel Fra	dure:
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If there is an odd number of entries find middle rank [(n+1)/2]. The corresponding sorted value depth to the middle rank is the median depth.

I, the undersigned, hereby affirm to the best of my kn datasheet is true and accurate.	owledge, that all information reported on this UAA
Signed: Kym Mr Lund	_Date: <u>05-27-</u> 07
Organization: SHIZ	Position:Position:
February 5, 2007	Secretian Page 25

	Distance from	Depth	Sife #Rank		
10	Stream edge		Ralik	Assigned Rank	Sorted depth
sect D ₁	well-d width			1 04 /=	
2	4.5 m	. 2		1 Channel Fee	dure:
2	7	14		7	
4	measurements	.3		4 Dissolved C	
5	.45 m	· 3		5 DISSIVED C	xygen
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4				15 Dissolve	1 12000
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67	gjart	12		17 8.9	
9				18 90	ppm
ģ				19	
10		• !		20	
70		• •		21	
رستا نده	wetted width	1		22	
ed F1	3 ~	12		23 Channel	entre:
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4	measurements	. 2		25	
Ė	3 m	· 3 · 3		26 Dissolved	Oxygen
6	apart	13	 		
7		12	- 	1. 8.9	Pan
67 7 9		12		90	Z
9				n	
lo					

If there is an odd number of entries find middle rank [(n+1)/2]. The corresponding sorted value depth to the middle rank is the median depth.

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

Signed: Ryan Mc Low	Date: <i>05-27-</i> 07
Organization: SHT D	Position: Everyonantal
February 5, 2007	Sucestist Page 25

	Distance from	Depth	Sife #Rank		
10	Stream edge	-	TOTAL	Assigned Rank	Sorted depth
isect 61	wethed width	-1		1 0/	
2	m	7-		1 Channel Fee	dure:
3		.2		12 200	
4	measurements			3	
5	- 7 n	12		4 Dissolved C	xygen
6	apart	·2 ·2 ·2 ·2			
7		12-			pon
8		. 2		8	76
		. 2-		9	
10		. 3		10	
				111	
att 1	wetted width	1			+
2	4	l		12 Channel 13 RW	tatue:
3		.4		14	1
4	me asurements	. 3			12.
5				16	Oxygen:
67	gjart			17 8.9	
9				18 91	ppm
9		- 4		19	
10				20	
,0		<u>.</u>		21	
أرسسنيه	welled wid!	, , , ,	· · · · · · · · · · · · · · · · · · ·	22	
4I1	weffed width	. 2		23 Channel	eatre:
3		.2		<u> 24</u> 24	1
4	measurements	, 2		25	
5	10 n			26 Dissolved	Oxygen
6	apart	.2		1	
		. 2		8.8	por
7 8		12		- 89	10/2
9		.2		<u> </u>	
10		· 2			

If there is an odd number of entries find middle rank [(n+1)/2]. The corresponding sorted value depth to the middle rank is the median depth.

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

I, the undersigned, hereby affirm to the best of my kn datasheet is true and accurate.	owledge, that all information reported on this UAA
Signed: Ryan of Line	Date: \$15-22-07
Organization: SETE	Position: En h Anna mental

February 5, 2007

Page 25

	Distance from	2 484 Depth	Sik #_		
,	Stream edge	Deput	Rank	Assigned Rank	Sorted depth
ansect II	welf width	,3			
2	5_m	13		1 Channeltea	rure:
3	7.7	1		1 2 PM	
Ú	mean rame to	- 13		3	
5	measurements	1,3		4 Dissolved O	Xuaen
5	a cont				
7	apart			6 8.9	ppa
Ø		12		7 90	17
8				8	
lo				9	
10				10	
14	11/11/11/11			11	
rved K_1	wetled width			12 Channel	Froher .
2	<u> </u>	12		13	/
3		,3 ,3		14	
4	me asurements	13		15 Dissolve	Oxygen:
5				16	Ligaere.
67	apart	13		17 8.0	ppm
9		.2_		18 90	PPIC
フ		12		19	
9		12		20	
10				21	
r .				22	
nsed 1	wetted width			23 Channel F	Bakera !
				24	C114 C.
3				25	+
7	measurements	· · · · · · · · · · · · · · · · · · ·		26 Dissolved	Orion
56					Jager
~	apart				
7 8 9	·	· · · · · · · · · · · · · · · · · · ·			Por
y	· · · · · · · · · · · · · · · · · · ·			n	-
				T =	
10		- 1			+

If there is an odd number of entries find middle rank [(n+1)/2]. The corresponding sorted value depth to the middle rank is the median depth.

I, the undersigned, hereby affirm to the datasheet is true and accurate.	he best of my knowledge	e, that all information reported on this UAA

Signed: Kylin Mr Lus	JDate:05-37-07
Organization: 9577	Position: Enriconmental
February 5, 2007	Secortist Page 25

WBID#_	484
Site#	3

Field Data Sheets for Recreational Use Stream Surveys Data Sheet B - Site Characterization (must be completed for each site)

				(11103	פניהם ל		i for each :	Site)			
Date & Time:							Site Location Description (e.g., road crossing): WANT A - ZOW				
Personnel (Data	Personnel (Data Collectors): Quarturk 30					<u> </u>	Bridge crossing @ Popcovn 124				
Current Weather	r Condition:	z: \ <u>\</u>	Mny	į.			Facility Name: Conception Phone Caraca				
Weather Condit	ions for Pas	t 10 days:	Rain	l		Permit N	Number:	Mi	10 48 TT	prolas	1001-
Drought Conditi	ons?: No d	rought 🔎	Phase I]; Phase	II □: F	Phase III	· Phase IV [J. Haka	oum []		
OTTO LUCATIONS	•									 	
LOCATOR COOR	<u> </u>		TRANSAS	er jer	AICR !	ere Emilia	LE EFE	444			
Sile GPS Coor	omates: U	IM X.	094	1010	$n \gamma o$	10/	V. 417	72	22721		
HUNIZONIAE CE	CLECHON I	ETHOD (I	rocate the n	nethod use	d to det	arrive the loc	ational data.	2.25-75-6-11	· 操 板点上确定器	4.229.38.13	14.000 p. 17.70 m. 18.00 m. 1
Static Mode	Giodal	POSIDORIN	g System (GPS)			L		Interpola	rtion	the page to the August of
Dynamic Mode (Ki							Topographic Aerial Photo				
Precise Positioning	Service						Satellite Ima		OQQ		
Signal Averaging			···········		$\neg +$		Interpolation				
Real Time Differen	tial Processin	9									
Hancon and	1998 (425)	1 TO 1 TO 1	***		\$ 						
	. •	GPS Date	Quality	,				The second second	Interpolation D	ata Ouality	
FOM	±		Meters						·····		
EPE	±	20 Fe	et or ±_	N	leters		Source	e Map Sca	le: 1:24,000 1:100	,000 Other_	
PDOP								±_	Feet or :	Me	ters
Photos:				·			<u> </u>				
U	pstream Ph	otos			D	ownstream	nstream Photos Other Photos			otos	
Photo ID#	Photo ID# Photo Purpose Photo II			D#	Photo Purpose Photo ID#				oto Purpose		
46	J>	K		45	45 C>B			41,42,47		W.A, UPSWEEL	
Uses Observed	*: (Uses	actually	observe	ed at tir	ne of	SILITVEV.)			1 44	ρ_{i}	<u>Lyangyiènadi</u>
☐ Swimming		☐ Skir		i	☐ SCUBA diving		3	☐ Tubing		□ Wa	ater skiing
☐ Wind surfing	<u> </u>	☐ Kaya	aking	_	□Во	ating		☐ Wading		□ Rat	
☐ Hunting		□ Тгаг	pping		☐ Fishing			Πά α			
Describe: (Inclu	de number o	of individu	als recreat	ing, phot	o-docu	mentation o	on of evidence of recreational uses, etc. Use Data Sheet D- Recreat			er:	
Use Interview w	nen conduc	ting interv	riews.)							20# 22 W.W. D.W.	set D- Recreational
Surrounding C	ondition	-*· () f -	T 17 .1					·			
Surrounding County of invariant in the surrounding County of items	nterest.)	s: (Ma	rk all tha	t promo	ote or	impede re	ecreational	l uses. A	Attach photos	of eviden	ce or
☐ City/county	parks	☐ Play	grounds	□мі	OC con	servation la	nds	☐ Urban areas		☐ Car	mpgrounds
☐ Boating acce	sses	☐ State	parks	∐ Na	itional f	forests		☐ Nature trails			irs/walkway
☐ No trespass sign ☐ Fence		□ Ste	☐ Steep slopes			None of the above		Ott			
Comments:											101.
ndications of h	luman U	SA*: (21	ttach ph	otos)							
	idications of Human Use*: (attach phot										
Roads	☐ Rope	wings	☐ Foot		nts	☐ Dock/p	latform	Liv	estock Watering	: □ RV /	ATV Tracks
Comments:	<u> </u>	-	☐ Fire p	oit/ring		□ NPDES	Discharge	□ Fis	hing Tackle	☐ Other	r:
	·										
	·									<u> </u>	

					lo C	hanrel Fe J: 100	eature
					RUA	J: 100	
* Page Two Date	- Chast D.C., Wint	n. 110		. 2	RIF		
Stream Morpholo	a Sheet B for WBI gy:	υ# <u>'(צ)</u>	·K: <u>/</u>	He >	Da	D	
opstream view	s Physical Dimensio	ns: Is there	any water	present at	this view	? □ Yes □ No	
_		If so,	is there an o	bvious ci	irrent?	☐ Yes ☐ No	
Select one of the	following channel fo	atures:					
Channel Feature RIFFLE	Distance from access	(m) W	/idth (m)	Leng	lh (m)	Median Depth (m)	Max. Depth (m
RUN			· · ·				
POOL							
7002							
	w's Physical Dimen	If so	nere any wa o, is there ar			ew? □ Yes □ No □ Yes □ No	
Channel Feature	Distance from access		idth (m)	Lengt	th (m)	Median Depth (m)	Max. Depth (m
RIFFLE				e		riedian Depth (III)	wax. Depth (m
RUN					i		
POOL							
Substrate*: (These	values should add up t	o 100%.)					
% Cobbl	le 10 % Grave	5	% Sand		% Silt	% Mud/Clay	% Bedr
	nohe in cr detritus pre	eun ir	iside k	ank.			
Water Characteri	stics*: (Mark all that	apply.)					
Odor:		Musky	☐ Chemi	cal	□ None		
Color:		Green	☐ Gray			Other:	
Bottom Deposit:					☐ Milky	☐ Other:	
Surface Deposit:	_	Solids	Fine se	ediments	□ None	☐ Other:	
Surface Deposit.	□ Oil □	Scum	☐ Foam	····	None	Other:	
*This information is no comprehensive understandecision on the recreation. Please verify that you	ot to be used solely for randing of water condition use analysis but may	emoval of a ons. Conseq point to con	recreational quently, this inditions that	use design nformation need furth	n is not inte er analysis	nded to directly influen or that effect another us	ce a e.
Surveyor's Signature Organization:	Ryan 1	2 du	nt	Date	of Survey:	185.27-0	7
organization	<i></i>		· · ·	Position	: ENV	wownendy	<u></u>
					.94	rential	

	Distance from	484 Depth	- Sik #		
1.	Stream adoa	Ворш	Ratik	Assigned Rank	Sorted depth
isect A	welfed width	.2-		1 04 4-	
2	-5.5 m	1,3		1 Channelfer	dure:
2		12		1 1 2	
4	measurements			4 Dissolved	2
5	155 n	14		5	xygen
6	apart	.3			
7		3		6 8.6 7 aD	ppn
8				8	
•		.2		9	
[0		- 2		10	
. 0	110/1/1-11/1			11	
d B	wetled width			12 Channel	Frature:
3	-31-2	.4		$\frac{13}{2}$	
4	and also we want			14	
Ś	measurements	<u> </u>		15 Dissolve	d Oxygen:
,	giart	74	- 	16	Ju
4		. 4			ppm
G		3		18 9	7.
9		. 3		20	
10		`2_		21	
				22	<u> </u>
ed C	Wetted width				Feature:
Z	512 M			24 QV)
3 U				1 25	
5	measurements	13		26 Dissolved	Oxygen
		·3 ·3			<i>J.</i>
6 7	apart	13		8.6	pan
9 9		3		- 91	16%
9		.2		n	
10		1			

If there is an odd number of entries find middle rank [(n+1)/2]. The corresponding sorted value depth to the middle rank is the median depth.

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

Signed: Kylin M. Zunt	Date: 05-27-07
Organization: SFTT	Position: Enry mental
February 5, 2007	Suntist Page 25

	WBID#	- 484	Sik #	3	
	Distance from	Depth	Rank		Ta
	Stream edge		Total Land	Assigned Rank	Sorted depth
ansect D	welfed width	,		1 Channel Fra	A
2	<u>5m</u>	12	_	2 Run	MITE:
4		14		3	
5	Measurements 5	13		4 Dissolved O	xygen.
6	apart				
7		.3		6 8,7	pon
8	·	.2		8	16
7 lo		,		9	
10				10	
nsed E 1	wetled width			11	
2	wetled width	. 2		12 Channel	Cative:
3		.3		14	
4				T	Oxinen:
	ayart	.3	:	16	Oxygen:
67	- apari	.7-		17 8.0	ppm
9		.2	- 	18 90	7-
9		2		20	
10				21	
ned F1	welled width			22	
2	(In	,2-		23 Channel F	eatere:
3		.3		25	
Ý	measurements	.3		26 Dissolved	Okusen
56	10 m	. 3			J
_	apart	1.2		8.7	pm
7.89		.3		91	12
_		.2-		n n	
10					

If there is an odd number of entries find middle rank [(n+1)/2]. The corresponding sorted value depth to the middle rank is the median depth.

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

Signed: Ryan M. Jan	
Signed: Kyan Me Juns	Date: <u>195-27-07</u>
Organization: SFTE	Position: & Environmental
February 5, 2007	See +1 + Page 25

	Distance from	Depth	Rank	Assigned Rank	C-4-1-1-1
isect61	Stream edge			7 ESSERIEU RAIK	Sorted depth
1001	wethed width			1 Channelt	
2	5.5_m	.2		1 Channel F	rature:
グ		,		3	
4	measurements				1
5	-55 n	. 3		4 Dissolved	oxygen
6	apart	13		6 8.5	pon
7		13		7 90	pon
8		'3		8	- 6
1		·3 ·3 ·2		9	
10		. 2		10	-
				11	
aH 1	welled width	, 3			
2				13 RIV	Frature:
3		'5		14	
4	me asurements	.4		15 Dissolve	100
5		. 3		16	d Oxygen:
4	apart	3		17 8.6	Dem
9		. 3		18 91	Per
9		. 3		19	
10		.7_		20	
,5				21	
أرسسهن	wetted width	<u> </u>		22	
4I1	10 m	·		23 Channel	Featre:
3				24 RV	<u>1</u>
4	measurements	.2		25	
5	10 m	:2-		26 Dissolved	Oxyger.
6	apart	.3		<u> </u>	
7		, 4		8.10	par
9		· 4		- 91	16/2
9				n	
10		ं पं			

If there is an odd number of entries find middle rank [(n+1)/2]. The corresponding sorted value depth to the middle rank is the median depth.

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

Signed: Ryan M. Lunt	Date:
Organization: SFTT	Position: Environmental
February 5, 2007	Scientist Page 25

Data Sheet C - Cross-Sectional Depth Measurements (for estimation of median depth)

	Distance from	Depth	Sik #_		
insect I	Stream edge		TODAY.	Assigned Rank	Sorted depth
··· ·	wethed width			104	
4	- m			2 Vannelt	entire:
4		.3		$\frac{1}{3}$	iffle
9	measurements	.3		4 Director	
5		13		4 Dissolved	Xygen_
j	apart			6 8.5	
8		,3		7 89	- ppa-
9		3		8	
10		2		9	-
			- 	10	
kd K_1	Wethed width	.2		11	
2	(D:5)	.3		12 Channel	Feature :
3		.2		-)
4	neasurement	. 3		14	
,	-105 M	.3		15 Dissolve	d Dxygen:
5	grant	, 3		17 8.4	W
9		<u></u>		18 91	ppm
9				19	
10				20	
ļ				21	
kd 1	wetted width			22	
				23 Channel	Carre:
3 9					
5	measurements			25 26 Descher	
6	a ze to			26 Dissolved	Oxygen
7	apart				-
3					Par
9				п	
/q_					

If there is an odd number of entries find middle rank [(n+1)/2]. The corresponding sorted value depth

If there is an even number of entries, the median depth corresponds to the arithmetic average of the tw

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UA

Signed: Myse M 1	P - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
Organization: SZTV	Date: <u>85-27-07</u>
February 5, 2007	Position: Environments
	Secontist Page 25



Upstream (Site 1) of Tributary to Wilson Creek



Upstream (Site 2) of Tributary to Wilson Creek



Downstream (Site 1) of Tributary to Wilson Creek



Downstream (Site 2) of Tributary to Wilson Creek



Upstream (Site 3) of Tributary to Wilson Creek



Upstream (Site 3) of Tributary to Wilson Creek